

Network Camera SNB-5000/SND-5080/SND-5080F/SNV-5080 User Manual

Before installing and operating this product, please read this manual thoroughly.

IMPORTANT SAFETY INSTRUCTIONS

- 1. Read these instructions.
- 2. Keep these instructions.
- Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat reaisters, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug, A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety, If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/ accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used. Use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13. Unplug this apparatus during lighting storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PROCUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECT THROUGH THE VENTILATION GRILLS OR OTHER OPENNINGS ON THE EQUIPMENT.

Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus

CAUTION



CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.

DO NOT REMOVE COVER (OR BACK).

NO USER SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

EXPLANATION OF GRAPHICAL SYMBOLS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

Class I construction

An apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.

Battery

Batteries(battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

Disconnection Device

Disconnect the main plug from the apparatus, if it's defected. And please call a repair man in your location.

When used outside of the U.S., it may be used HAR code with fittings of an approved agency is employed.

CAUTION

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

The BNC output port is used to monitor the installation process of the network camera.

If you keep the BNC cable connected, a risk of lightening may cause damage or malfunction to the product.

Please read the following recommend safety precautions carefully.

Do not Place this apparatus on an uneven surface.	Do not install on a surface where it is exposed to direct sunlight, near heating equipment or heavy cold area.
Do not place this apparatus near.	Do not attempt to service this apparatus yourself.
Do not place a glass of water on the product.	Do not install near any magnetic sources.
Do not block any ventilation openings.	Do not place heavy items on the product.
25 (10)	

User's Manual is a guidance book how to use the products

The meaning of the using sign in the book is following

- Reference : In case of providing information for helping of product's usages
- Notice: If there's any possibility to occur any damages for the goods and human caused by not following the instruction
- * Please read this manual for the safety before using of goods and keep it in the safe place.



This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



Samsung Techwin cares for the environment at all product manufacturing stages, and is taking measures to provide customers with more environmentally friendly products. The Eco mark represents Samsung Techwin's devotion to creating environmentally friendly products, and indicates that the product satisfies the EU RoHS Directive.



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

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PRODUCT FEATURES

· HD Video Quality

Supports up to 1.3 mega pixels of HD video quality.

H.264/MPEG-4/MJPEG Multi-Streaming

This network camera supports the H.264/MPEG-4/MJPEG codec and can display videos in different resolutions and qualities simultaneously with different Codecs.

· Support various communication protocols

Supports TCP/IP, UDP, RTP/RTSP, email, and FTP protocols as well as various internet protocols such as ARP, HTTP, HTTPS and DHCP.

Web Browser-based Monitoring

Using the Internet web browser to display the image in a local network environment.

Alarm

If an event occurs, the event-related video will be transferred to the FTP/email specified by the user or saved to the SD memory, or the event signal will be sent to the ALARM OUT port.

Intelligent Video Analysis

Analyzes the event video according to the user-specified rules to recognize the event.

ONVIF (Spec 1.01) Compliance

This product supports ONVIF Core Spec. 1. 01. For more information, refer to www.onvif.org.



RECOMENDED PC SPECIFICATIONS

• CPU: Pentium4 / 2.4GHz or higher

Operating System: Windows XP, VISTA, 7

Mac OS

Resolution: 1280X1024 pixels or higher

RAM: 1GB or higher

• Web Browser : Internet Explorer 7.0 or higher

Firefox, Google Chrome, Safari

Video Memory: 128MB or higher



WHAT'S INCLUDED

Please check if your camera and accessories are all included in the product package.

Appearance	Item Name	Quantity	Description	Model Name	
	User Manual/ IP Installer DVD	1		SNB-5000 SND-5080/5080F	
	User Manual	1		SNV-5080/5080F	
	Jack Modular	1	LAN cable gender		
	Cable for the testing monitor	1	Used to test the camera connection to a portable display device	SND-5080/5080F SNV-5080	
9	Alarm Cable	1	Used to connect to Alarm I/O		
	Template	1	Product installation guide	SND-5080F SNV-5080	
	Iron Screw	3	Used for fixing to an iron plate	SND-5080/5080F	
	Dustproof Plate	1	Preventing dust inflow	SND-5080	

Appearance	Item Name	Quantity	Description	Model Name
	C Mount Adapter Auto Iris Lens Connector	1	Used to install the camera lens	
	Camera Holder (Mount)	1	Used to install the camera holder	SNB-5000
0-9	Camera Holder (Mount) Screws	2	Used to install the mount	
	ASSY-Screw Tapping	4	Used for installation on the wall or ceiling	
	L Wrench	1	Used to remove/fix the dome cover	SNV-5080
	Plastic Anchor	4	For fixing a screw, Inserted in a hole (reinforced anchoring force)	
	Tapping Screw	1		SND-5080F
	Bracket Safety	1		3ND-3000I
Lens Options (not included)				
	CS Lens		Optional lens to be inserted in a	SNB-5000
	C Lens		camera	

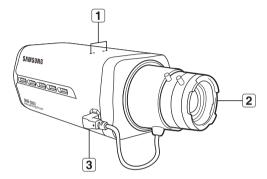


The Test Monitor Cable is connected to a portable displayer and used for testing the camera.
 If you intend to use it for an actual monitoring camera, use the BNC cable instead.



AT A GLANCE (SNB-5000)

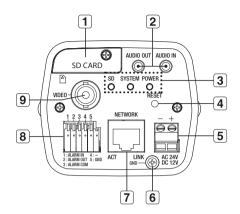
Front Side



Item	Description		
Camera Holder (Mount) Holes	Used when you mount the camera onto the bracket by fixing the camera holder (mount) adaptor with the bracket.		
Auto Iris Lens (Optional)	Installed on the lens adaptor.		
Auto Iris Lens Connector	Used to supply power and output signal to control the iris of the lens.		



 Wipe out a dirty surface of the lens softly with a lens tissue or cloth to which you have applied ethanol.

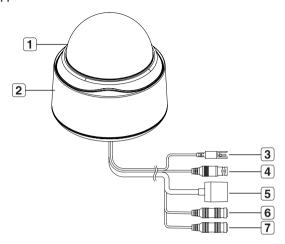


Item	Description	
SD Memory Card Compartment	Compartment for the SD memory card.	
2 Audio terminal	AUDIO OUT	Terminal for audio output.
Audio terminal	AUDIO IN	Terminal for audio input.
	SD	ON: A memory card is inserted and operates normally. Flashing: Failed to record, insufficient space, or inserted abnormally. OFF: Camera is off, camera is restarting, or memory card is not in place.
3 System, Power, SD Indicators		ON: The camera is turned on and connected to the network properly. Blinking: During DDNS setup, or in case of setup failure, or in a state of unstable network connection OFF: When the system is rebooting, or turned off
	POWER	ON : While the power is on OFF : If the power is off



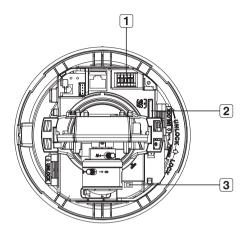
4 Reset Button	Resets the camera settings to the default. Press and hold it for about 5 seconds to turn off the system indicator and restart the system. Resetting the camera IP address, subnet mask, gateway address etc. requires the use of the IP Installer software application.	
5 Power Port	Used to plug t	he power cable.
6 GND	Used for earth-grounding.	
7 Network Port	Used to connect a PoE or LAN cable.	
	ALARM IN	Used to connect the alarm input signal.
8 I/O Port	ALARM OUT	Used to connect the alarm output signal.
8 1/0 Port	ALARM COM	Common port where the alarm output signal is connected.
	GND	Used for earth-grounding.
9 Video Out Port	Video signal output port connected to the monitor.	

Appearance



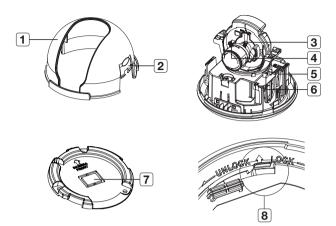
Item	Description	
1 Dome Cover	Dome cover for the lens and unit protection.	
2 Main unit	Main unit includes the lens, switch board, PCB boards and screws.	
3 Power Port	Used to plug the power cable.	
4 Video Out Port	Video signal output port connected to the monitor.	
5 Network Port	Used to connect a PoE or LAN cable.	
6 Audio In Jack	Used to connect to a microphone.	
7 Audio Out Jack	Used to connect to speakers.	

Inside



Item	Description		
	ALARM IN	Used to connect the alarm input signal.	
Alarm In / Out	ALARM OUT	Used to connect the alarm output signal.	
terminals	ALARM COM	Common port where the alarm output signal is connected.	
	GND	Used for earth-grounding.	
SD Memory Card Compartment	Compartment for the SD memory card.		
3 Reset Button	Resets the camera settings to the default. Press and hold it for about 5 seconds to turn off the system indicator and restart the system. Resetting the camera IP address, subnet mask, gateway address etc. requires the use of the IP installer software application.		

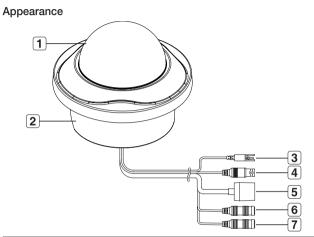
Components



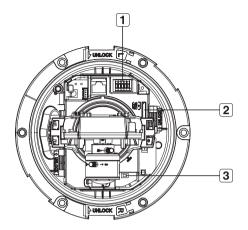
Item	Description		
1 Inner Cover	Cover for the main unit's protection.		
2 Side wing hooks	By lifting it while gently pressing the both ends, you ca cover.	n separate the inner	
3 ZOOM lever	Turn the barrel left or right to adjust the zoom, and turn to lock the zoom.	n the knob clockwise	
4 Focus lever	Turn the barrel left or right to adjust the focus, and turn the knob clockwise to lock the focus.		
SD Memory Card Compartment	Compartment for the SD memory card.		
6 Monitor Out	Using the test monitor cable, you can connect to a mobile display for camera test.		
7 Wiring Cover	If you drill a hole in the wiring cover for wiring, remove the cover and attach the provided dustproof plate to it, and arrange the cables through the plate. The dust-proof plate is to prevent outside dust from inflow to the wiring compartment.		
8 Lock Release	To separate the bracket from the main unit for the installation or to separate the camera from an installed camera, push this release and turn the main unit in the marked direction of <unlock></unlock> .		



AT A GLANCE (SND-5080F)



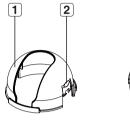
Item	Description		
1 Dome Cover	Dome cover for the lens and unit protection.		
2 Main unit	Main unit includes the lens, switch board, PCB boards and screws.		
3 Power Port	Used to plug the power cable.		
4 Video Out Port	Video signal output port connected to the monitor.		
5 Network Port	Used to connect a PoE or LAN cable.		
6 Audio In Jack	Used to connect to a microphone.		
7 Audio Out Jack	Used to connect to speakers.		

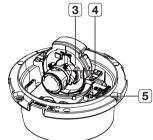


Item	Description		
	ALARM IN	Used to connect the alarm input signal.	
Alarm In / Out	ALARM OUT	Used to connect the alarm output signal.	
terminals	ALARM COM	Common port where the alarm output signal is connected.	
	GND	Used for earth-grounding.	
2 SD Memory Card Compartment	Compartment for the SD memory card.		
3 Reset Button	Resets the camera settings to the default. Press and hold it for about 5 seconds to turn off the system indicator and restart the system. Resetting the camera IP address, subnet mask, gateway address etc. requires the use of the IP Installer software application.		



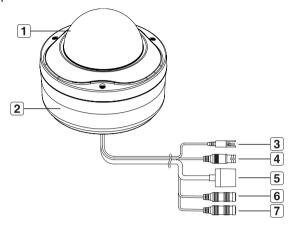
Components





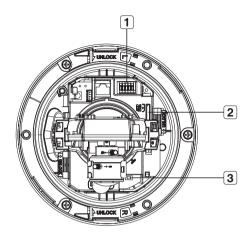
Item	Description	
1 Inner Cover	Cover for the main unit's protection.	
2 Side wing hooks	By lifting it while gently pressing the both ends, you can separate the inner cover.	
3 ZOOM lever	Turn the barrel left or right to adjust the zoom, and turn the knob clockwise to lock the zoom.	
4 Focus lever	Turn the barrel left or right to adjust the focus, and turn the knob clockwise to lock the focus.	
5 Monitor Out	Using the test monitor cable, you can connect to a mobile display for camera test.	

Appearance



Item	Description		
1 Dome Cover	Dome cover for the lens and unit protection.		
2 Main unit	Main unit includes the lens, switch board, PCB boards and screws.		
3 Power Port	Used to plug the power cable.		
4 Video Out Port	Video signal output port connected to the monitor.		
5 Network Port	Used to connect a PoE or LAN cable.		
6 Audio In Jack	Used to connect to a microphone.		
7 Audio Out Jack	Used to connect to speakers.		

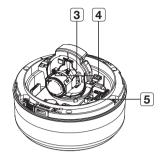
Inside



Item	Description		
Alarm In / Out terminals	ALARM IN	Used to connect the alarm input signal.	
	ALARM OUT	Used to connect the alarm output signal.	
	ALARM COM	Common port where the alarm output signal is connected.	
	GND	Used for earth-grounding.	
SD Memory Card Compartment	Compartment for the SD memory card.		
3 Reset Button	Resets the camera settings to the default. Press and hold it for about 5 seconds to turn off the system indicator and restart the system. Resetting the camera IP address, subnet mask, gateway address etc. requires the use of the IP Installer software application.		

Components





Item	Description	
1 Inner Cover	Cover for the main unit's protection.	
2 Side wing hooks	By lifting it while gently pressing the both ends, you can separate the inner cover.	
3 ZOOM lever	Turn the barrel left or right to adjust the zoom, and turn the knob clockwise to lock the zoom.	
4 Focus lever	Turn the barrel left or right to adjust the focus, and turn the knob clockwise to lock the focus.	
5 Monitor Out	Using the test monitor cable, you can connect to a mobile display for camera test.	

INSTALLATION (SND-5080)

Precautions before installation

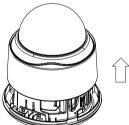
Ensure you read out the following instructions before installing the camera:

- Select an installation site (ceiling or wall) that can endure at least 5 times of the camera weight.
- Stuck-in or peeled-off cables can cause damage to the product or a fire.
- For safety purposes, keep anyone else away from the installation site. And put aside personal belongings from the site, just in case.

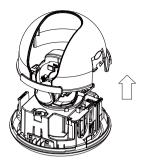
Installing the camera

1. Hold down the bottom lock lever while removing the cover with the other hand. Removing the cover reveals the main unit and inner cover.





2. To fix the camera position, hold down either hook of the inner cover and lift it up.



- 3. Push the release lock out while turning the main unit in the <UNLOCK> direction to remove the bracket. If this doesn't work, use the hole on the bottom of the bracket to turn the bracket in the <LOCK>direction.
- 4. Use the provided screws (x3) to fix the bracket to a desired position (ceiling or wall).
 - Ensure that the <CAMERA FRONT> label on the bracket faces the direction for camera monitoring.



Wiring Cover

- **5.** Arrange the cables through the bracket to the ceiling or wall.
 - If you drill a hole in the ceiling cover for wiring, press hard to remove the cover and attach the dust-proof plate to it, and arrange the cables through the plate. If you intend to arrange the cables without drilling a hole, use the empty area opposite to the <CAMERA FRONT> label side for the wiring purpose.
- Mount the main unit onto the bracket.
 Align the marking hole of the main unit with the
 CAMERA FRONT> label of the bracket, and turn the unit in the <LOCK> direction.
- Adjust the lens in a desired direction.
 For adjusting the lens direction, refer to "Adjusting the monitoring direction for the camera". (page 31)
- 8. Secure the inner cover to the main unit. Fit the two holes of the wing-side locks on the inner cover into the corresponding hole of the main unit, and press it down until you hear a click.
- Fix the cover to the main unit.Fit the protruding part inside the cover into the corresponding hole of the main unit, and turn the cover to fix it.



INSTALLATION (SND-5080F)

Removing the dome cover

- 1. Hold down the bottom lock lever while removing the cover with the other hand. Removing the cover reveals the main unit and inner cover.
- 2. To fix the camera position, hold down both hooks of the inner cover while lifting it up.

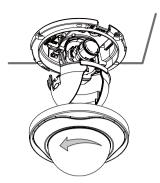


Ceiling Mount

- 1. Use the provided template to drill one hole for the camera, and one for the screw (5 mm in diameter, at least 35 mm in depth), and insert the plastic anchor (HUR 5) to the end of the screw hole.
- 2. Connect and arrange the necessary cables (power, video, etc) lest that they should be damaged or caught while installing the camera



- Insert the camera assembly into the hole so that it fits to the camera hole, and fix the assembly using the assembly screw tappings (TH, M4xL30). (x3)
- 4. Close the dome cover.
- Fix the cover to the main unit. Fit the protruding part inside the cover into the corresponding hole of the main unit, and turn the cover to fix it



To add an alarm cable

- 1. For this, first you should remove the dome cover from the housing.
- 2. Pull out the protruding rubber bar as shown.
- This will reveal a hole in the place of the rubber bar, through which you insert the cable, and connect it to the alarm terminal on the PCB.
- 4. Connect and arrange the necessary cables (power, video, etc) lest that they should be damaged or caught while installing the camera. Then, install the camera assembly in the reverse order of the disassembly.
- Adjust the lens in a desired direction and close the dome cover.



INSTALLATION (SNV-5080)

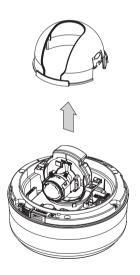
Disassembling

To connect the alarm in/out, the dome cover and lens cover are to be separated.

1. Using the L-wrench provided, loosen 3 screws by turning them counterclockwise and separate the dome cover.



2. Lift up the inner cover while gently pressing its both ends to separate it from the unit.



Optional Accessories for Installation

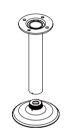
For your easier installation, you can purchase appropriate optional accessories available.

 WALL MOUNT ADAPTOR(SCX-300WM)/ HANGING MOUNT(SCX-300HM)

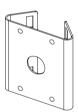
This adaptor is used when installing the dome camera onto a wall



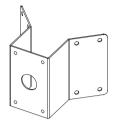
 CEILING MOUNT ADAPTOR(SCX-300CM)/ HANGING MOUNT(SCX-300HM)
 This adaptor is used when installing the dome camera on a concrete ceiling.



3. POLE MOUNT ADAPTOR(SCX-300PM)
This is an adaptor for WALL MOUNT ADAPTOR
(SCX-300WM) installation on a pole whose
diameter is bigger than 80mm.



4. CORNER MOUNT ADAPTOR (SCX-300KM) This is an adaptor for WALL MOUNT ADAPTOR (SCX-300WM) installation on the corner of wall joint.

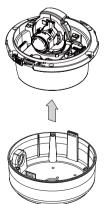


Installing on the ceiling directly

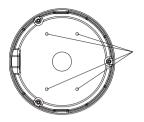
1. Using the L-wrench provided, loosen 3 screws by turning them counterclockwise and separate the dome cover



2. Loosen 3 screws by turning them counterclockwise, press both left and right lock releases inwards (in arrow direction) to unlock the stopper, and then separate the camera from the case.



 Drill holes (diameter 5mm, more than 35mm deep) on the ceiling by matching to the holes on the case bed, and insert plastic anchors (HUD 5) fully into the holes. Fix the case bed on the ceiling by using Tapping Screws (TH M4xL30). (4 places)

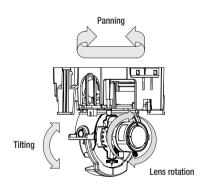


- Connect power and video cables and arrange cable running not to damage or squeeze them, and assemble the camera unit in the reverse way.
- 5. Adjust the lens aiming to your desired direction.
- Assemble the Dome Cover.For waterproof purpose, fix and secure the bolt using L-wrench provided.



 For the wall mounting installation and how to connect the alarm cables, refer to the installation instructions of SND-5080F. (pages 26~27)

Adjusting the monitoring direction for the camera (SND-5080/ SND-5080F/SNV-5080)



You can adjust the camera direction only when the camera is fixed on the ceiling. Then, turning the camera to the left or right is referred to as "Panning", while tilting the angle is "Tilting". For panning, the panning limit is 220° for the clockwise, and 120° for the counterclockwise, a total of 340° enabled; further rotation is stopped by the stopper.

MOUNTING THE LENS

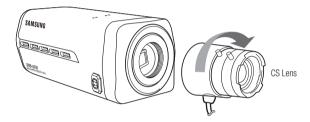
Disconnect the power before proceeding.



The C lens and CS lens are not included in the product package. It is recommended that megapixel lens are use on this camera to optimise performance.

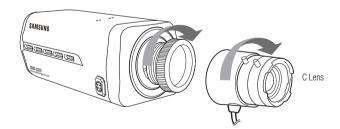
Mounting the CS lens

Turn the optional CS lens clockwise to insert it.



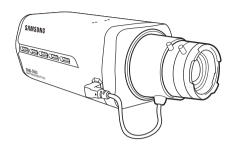
Mounting the Clens

Turn the C mount adaptor clockwise to insert it and do the same with the C lens.



Connecting the Auto Iris Lens connector

Insert the lens connector into the corresponding hole of the camera.



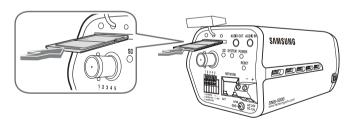
Focusing

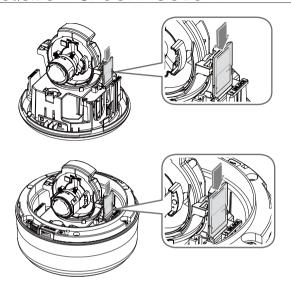
Turn the lens left or right to control the zoom and focus the lens so that you can view a clear, sharp object.

INSERTING/REMOVING AN SD MEMORY CARD

Inserting an SD Memory Card

Push the SD memory card in the direction of the arrow shown in the diagram.

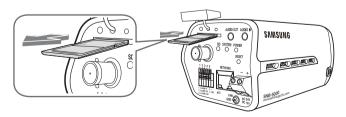


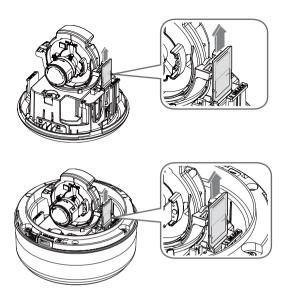


Do not insert the SD memory card while it's upside down by force. Otherwise, it may damage the SD memory card.

Removing an SD Memory Card

Gently press down on the exposed end of the memory card as shown in the diagram to eject the memory card from the slot.





- Pressing too hard on the SD memory card can cause the card to shoot out uncontrollably from the slot when released.
 - To remove the SD memory card, set <Record> to OFF from <SD Record> and press [Apply]. (page 78)
 - If you have saved data in the SD memory card, removing the SD memory card prior to setting <Record> to OFF will cause damage to the data stored in the card.
 - If the SD memory is inserted, the SD LED indicator on the rear of the camera will turn on.
 - If there occurs a problem in the SD memory, the SD LED indicator will blink.

MEMORY CARD INFORMATION (NOT INCLUDED)

What is a memory card?

The memory card is an external data storage device that has been developed to offer an entirely new way to record and share video, audio, and text data using digital devices.

Selecting a memory card that's suitable for you

Your camera supports SDHC memory cards.

You may, however, experience compatibility issues depending on the model and make of the memory card.

For your camera, we recommend you use a memory card from the following manufacturers:

SDHC/SD Memory Card: Sandisk, Transcend, Kingston

Your camera supports 2GB to 32GB of memory card capacity.

Playback performance can be affected depending on the speed of memory card, so use the high-speed memory card.

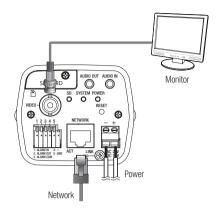
To ensure proper recording of video data, we recommend you use a memory card that supports at least read/write speed 10Mbps and Class 6.

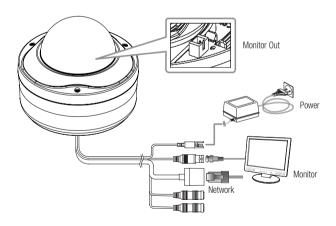
Memory Card Use

SD and SDHC memory cards feature a switch that disables writing data on to the media. Having this switch to the Lock position will prevent accidental deletion of data stored in the memory card but at the same time will also prevent you from writing data on to the media.

Memory Card Components







installation & connection

Connecting to the monitor

Connect the [VIDEO] port of the camera to the video input port of the monitor.



- In the initial installation of the camera, you can connect the camera to the monitor for checking the connection status
 - You must set < Video Output > to < ON > before the display screen can be activated. (page 72)
- Connect the monitor test cable to the output port of the monitor.

Ethernet Connection

Connect the Ethernet cable to the local network or to the Internet.

Power Supply

Use the screwdriver to connect each line (+, -) of the power cable to the corresponding power port of the camera.

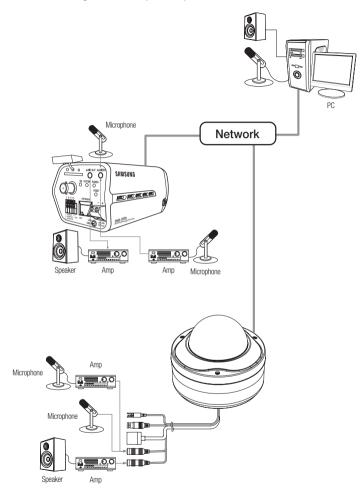


Be careful not to reverse the polarity when you connect the power cable. You can also use a router featuring PoE (Power over Ethernet) to supply power to the camera.



The instructions above are also applied to SND-5080/SND-5080F/SNV-5080.

Connecting to Audio Input/Output



installation & connection

- 1. Connect the AUDIO IN port of the camera with the microphone directly or LINE OUT port of the amplifier that the microphone is connected to.
- 2. Connect the AUDIO OUT port of the camera with the LINE IN port of the speaker.
- 3. Check the specifications for audio input.
- Audio Codec

G.711 PCM. µ-law 64kbps 8kHz sampling

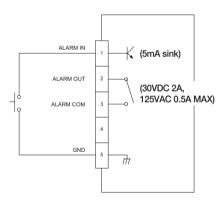
- Full duplex Audio
- Audio in

Used for mono signal line input (Max.2.4 Vpp)

Used for mono signal line output (Max.2.4 Vpp)

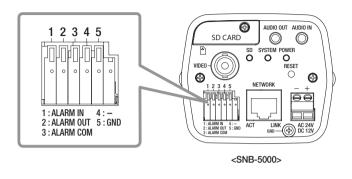
 Line out impedance 6000

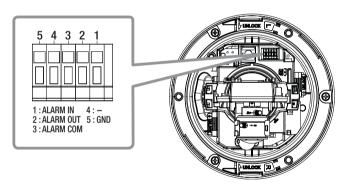
Alarm I/O Wiring Diagram



Connecting to the I/O port box

Connect the Alarm I/O signal to the corresponding port of the rear port box.





- · ALARM IN: Used to connect the alarm input signal.
- $\bullet\;$ ALARM OUT : Used to connect the alarm output signal.
- ALARM COM: Common port where the alarm output signal is connected.
- GND : Used for earth-grounding.

<SND-5080/SND-5080F/SNV-5080>

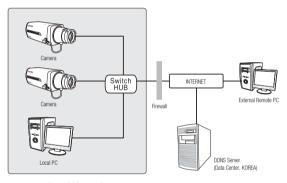
network connection and setup

You can set up the network settings according to your network configurations.

CONNECTING THE CAMERA DIRECTLY TO LOCAL AREA **NFTWORKING**

Connecting to the camera from a local PC in the LAN

- 1. Launch an Internet browser on the local PC.
- 2. Enter the IP address of the camera in the address bar of the browser

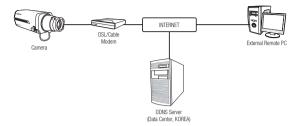


<Local Network>



A remote PC in an external Internet out of the LAN network may not be able to connect to the camera installed in the intranet if the port-forwarding is not properly set or a firewall is set. In this case, to resolve the problem, contact your network administrator.

CONNECTING THE CAMERA DIRECTLY TO A DHCP BASED DSL/CABLE MODEM



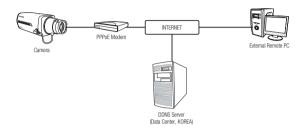
- 1. Use the cross LAN cable to connect the network cable directly to your PC.
- 2. Run the IP Installer and change the IP address of the camera so that you can use the web browser on your desktop to connect to the Internet.
- 3. Use the Internet browser to connect to the camera.
- 4. Move to [Setup] page.
- 5. Move to [Network] [DDNS] and configure the DDNS settings.
- 6. Move to [Network] [Interface], and set the network type to [DHCP].
- 7. Connect the camera, which was removed from your PC, directly to the modem.
- Restart the camera.



- For registering the DDNS settings, refer to "DDNS", (page 74)
- For configuring the DDNS settings, refer to "Registering with DDNS". (page 76)
- For setting the network type, refer to "Interface". (page 73)

network connection and setup

CONNECTING THE CAMERA DIRECTLY TO A PPPOE MODEM



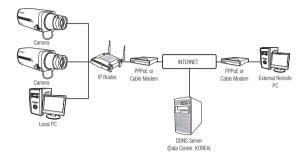
- 1. Use the cross LAN cable to connect the network cable directly to your PC.
- Run the IP Installer and change the IP address of the camera so that you can use the web browser on your desktop to connect to the Internet.
- 3. Use the Internet browser to connect to the camera.
- 4. Move to [Setup] page.
- 5. Move to [Network] [DDNS] and configure the DDNS settings.
- 6. Move to [Network] [Interface], and set the network type to [PPPoE].
- 7. Connect the camera, which was removed from your PC, directly to the modem.
- 8. Restart the camera.



- For registering the DDNS settings, refer to "DDNS". (page 74)
- For configuring the DDNS settings, refer to "Registering with DDNS". (page 76)
- For setting the network type, refer to "Interface". (page 73)

CONNECTING THE CAMERA TO AN IP ROUTER WITH THE PPPOE/CABLE MODEM

This is for a small network environment such as homes, SOHO and ordinary shops.



Configuring the network settings of the local PC connected to an IP router

Configuring the network settings of the local PC connected to an IP router, follow the instructions below

- Select : <Network Neighborhood> → <Properties> → <Local Area Connection> → <Properties> → <General> → <Internet Protocol (TCP/IP)> → <Properties> → <Obtain an IP address automatically> or <Use the following IP address>.
- Follow the instructions below if you select < Use the following IP address>:

ex1) If the address (LAN IP) of the IP router is 192.168.1.1

IP address: 192.168.1.100 Subnet Mask: 255.255.255.0 Default Gateway: 192.168.1.1

ex2) If the address (LAN IP) of the IP router is 192.168.0.1

IP address: 192.168.0.100 Subnet Mask: 255.255.255.0 Default Gateway: 192.168.0.1

ex3) If the address (LAN IP) of the IP router is 192.168.xxx.1

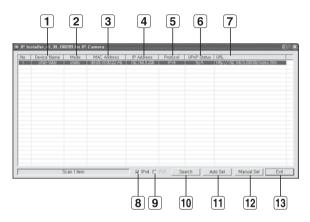
IP address: 192.168.xxx.100 Subnet Mask: 255.255.255.0 Default Gateway: 192.168.xxx.1



For the address of the IP router, refer to the product's documentation.

network connection and setup

IP ADDRESS SETUP



Buttons used in IP Installer

Item	Description	
1 Device Name	Model name of the connected camera. Click the column to sort the list by model name. However, search will be stopped if clicked during the search.	
2 Mode	Displays either <static></static> or <dynamic></dynamic> for the current network connection status.	
MAC(Ethernet) Address	Ethernet address for the connected camera. Click the column to sort the list by Ethernet address. However, search will be stopped if clicked during the search.	
4 IP Address	IP address. Click the column to sort the list by IP address. However, search will be stopped if clicked during the search. The factory default is "192.168.1.100".	
5 Protocol	Network setting for the camera. The factory default is "IPv4". Cameras with the IPv6 setting will be displayed "IPv6".	

6 UPnP Status	This function is not currently implemented.	
7 URL	DDNS URL address enabling access from the external Internet. However, this will be replaced with the <ip address=""> of the camera if DDNS registration has failed.</ip>	
8 IPv4	Scans for cameras with the IPv4 setting.	
9 IPv6	Scans for cameras with the IPv6 setting.	
10 Search	Scans for cameras that are currently connected to the network. However, this button will be grayed out if neither IPv4 nor IPv6 is checked.	
11 Auto Set	<ip installer=""> will automatically configure the network settings for you.</ip>	
12 Manual Set	You should configure the network settings manually.	
13 Exit	Exits the IP Installer program.	

STATIC IP SETUP

Manual Network Setup

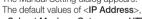
Run <IP Installer.exe> to display the camera search list.

At the initial startup, both [Auto Set] and [Manual Set] will be graved out.



- For cameras found with the IPv6 setting, these buttons will be grayed out as the cameras do not support this function.
- Select a camera in the search list. Find the MAC (Ethernet) address labeled on the rear of the camera. Both the [Auto Set] and [Manual Set] buttons will be activated.
- 2. Click [Manual Set].

The Manual Setting dialog appears.



<Subnet Mask>, <Gateway>, <HTTP Port> and <VNP Port> of the camera will be displayed.

The default < Password > is 4321.



network connection and setup

3. In the **<Address>** pane, provide the necessary information.

MAC (Ethernet) Address: The MAC (Ethernet) address of the applicable camera will be set automatically so you don't need to input it manually.



Automatic Configuration - DHCP |w|

Setup

If using an IP router

 IP Address: Enter an address falling in the IP range provided by the IP router. ex) 192.168.1.2~254,

192.168.0.2~254, 192.168 XXX 2~254

- Subnet Mask: The <Subnet Mask> of the IP router will be the <Subnet Mask> of the camera.
- Gateway: The <Local IP Address> of the IP router will be the <Gateway> of the camera.



The settings may differ depending on the connected IP router model.
For more information, refer to the user manual of the applicable router.

If not using an IP router

For setting <IP Address>, <Subnet Mask>, and <Gateway>, contact your network administrator

- 4. In the <Port> pane, provide necessary information.
 - HTTP Port: Used to access the camera using the Internet browser, defaulted to 80. Use the spin button to change the HTTP Port value.
 - VNP Port : Used to control the video signal transfer, defaulted to 4520.



5. Enter the password.

This is the login password for the "admin" user who accesses the camera. The default password is "4321".

- Click [OK].
 - Manual network setup will be completed.
- 7. When the manual setup including <IP> is completed, the camera will restart.

If the IP router has more than one camera connected

Configure the IP related settings and the Port related settings distinctly with each other.

Category		Camera #1	Camera #2
IP related settings	IP Address	192.168.1.200	192.168.1.201
	Subnet Mask	255.255.255.0	255.255.255.0
	Gateway	192.168.1.1	192.168.1.1
Port related settings	HTTP Port	80	10000
	VNP Port	4520	4530



If the <HTTP Port> is set other than 80, you must provide the <Port> number in the address bar of the Internet browser before you can access the camera.

ex) http://IP address : HTTP Port http://192.168.1.201:10000

Auto Network Setup

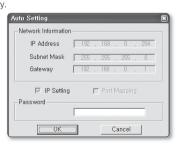
Run <IP Installer.exe> to display the camera search list.

At the initial startup, both [Auto Set] and [Manual Set] will be grayed out.



- For cameras found with the IPv6 setting, these buttons will be grayed out as the cameras do not support this function.
- Select a camera in the search list.
 Find the MAC (Ethernet) address labeled on the rear of the camera.
 Both the [Auto Set] and [Manual Set] buttons will be activated.
- Click [Auto Set].
 The Auto Setting dialog appears.
 The <IP Address>, <Subnet Mask>,
 and <Gateway> will be set automatically.
- Enter the password.
 This is the login password for the "admin" user who accesses the camera. The default password is "4321"
- 4. Click [OK].
 Auto network setup will be completed.
- **5.** The camera will automatically complete the network setting and restart.





network connection and setup

DYNAMIC IP SETUP

Dynamic IP Environment Setup

- Example of the Dynamic IP environment
 - If an IP router, with cameras connected, is assigned an IP address by the DHCP server
 - If connecting the camera directly to modem using the DHCP protocols
 - If IPs are assigned by the internal DHCP server via the LAN

Checking the Dynamic IP

- 1. From a local PC, run < IP Installer> to display a list of cameras that are assigned < Dvnamic IP>.
- 2. Select a camera in the list, and click [Manual Set] to check the < Dynamic IP> of the camera If you uncheck < DHCP>, you can change <IP> or <Port> to <Static>.





PORT RANGE FORWARD (PORT MAPPING) SETUP

If you have installed an IP router with a camera connected, you must set the port range forwarding on the IP router so that a remote PC can access the camera in it.

Manual Port Range Forwarding

- From the Setup menu of the IP router, select <Applications & Gaming> -<Port Range Forward>.
 For setting the port range forward for a third-party IP router, refer to the user guide of that IP router.
- Select <TCP> and <UDP Port> for each connected camera to the IP router.
 Each port number for the IP router should match that specified in <Network> <Port> from the camera's Setup menu.
- **3.** When done, click [Save Settings]. Your settings will be saved.



 The settings may differ depending on the connected IP router model.
 For more information, refer to the user manual of the applicable router.





network connection and setup

CONNECTING TO THE CAMERA FROM A SHARED LOCAL PC

- 1 Launch < IP Installer>
 - It will scan for connected cameras and display a list of them.
- 2. Double-click a camera to access The Internet browser starts and connects to the camera.





Access to the camera can also be gained by typing the camera's IP address in the address bar of the Internet browser

CONNECTING TO THE CAMERA FROM A REMOTE PC VIA THE INTERNET

As a remote PC can not directly access < IP Installer>, you should access the camera in the IP router network using DDNS URL of the camera.

- 1. Before you can access a camera in the IP router network, you should have set the port range forward for the IP router.
- 2. From the remote PC, launch the Internet browser and type the DDNS URL address of the camera, or the IP address of the IP router in the address bar. ex) http://www.samsungipolis.com/[Product ID]

camera setup

HOW TO USE THE MENU KEY

Follow the steps below if you run the Web Viewer for setting the menus.

- 1. Launch the Web Viewer.
- Click [Camera Menu ()] in the left corner of the Live screen.

 The camera setup menu appears.
- Use the Up/Down (▲/▼) buttons to move to a desired item.
- To change the value of a selected item, use the Left/Right (
 D break down to a sub-menu structure, click [Enter (
 D) on the selected item.



্ৰী: This arrow appears next to a menu that contains sub items.



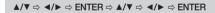
If <IV analysis function> is enabled, camera's OSD menu operation can be set as an event.

CAMERA MENU SETUP

You can change the camera settings according to the environment where the camera is located.

SSDR (Samsung Super Dynamic Range) Setup

In a scene where the difference between bright and dark is severe, you can increase the brightness of the dark area alone to regulate the overall brightness.



1. Move to <SSDR> and select <ON>.



camera setup

- 2. Configure the <SSDR> and <D-RANGE> settings as necessary.
 - SSDR : Adjust the level of the dynamic range.
 - D-RANGE: Select the amplitude area of the dynamic range.
- 3. When completed, select <RETURN> to return to the previous screen.



White Balance Setup

You can correct the image colors based on white under any lighting conditions.

$\triangle/\nabla \Rightarrow \blacktriangleleft/\triangleright \Rightarrow \mathsf{ENTER} \Rightarrow \triangle/\nabla \Rightarrow \blacktriangleleft/\triangleright \Rightarrow \mathsf{ENTER}$

- Move to < WHITE BAL> and select a setting value.
 - ATW: Corrects the colors of the camera video automatically.
 - MANUAL: You can adjust the red and blue gains of the camera video manually.
 - AWC SET: Corrects the colors of the camera video to be optimized to the current lighting condition and screen mode



- OUTDOOR: Automatically corrects the video colors of the camera to be optimized to the outdoor environment.
- INDOOR: Automatically corrects the video colors of the camera to be optimized to the indoor environment.
- 2. To adjust it manually, select < MANUAL>.
- **3.** Specify the <**RED**> and <**BLUE**> values as necessary.
- **4.** When completed, select <**RETURN**> to return to the previous screen.



Custom Backlight Setup

You can specify a desired area on the video manually and set the area to be displayed more clearly.

$\triangle/\nabla \Rightarrow \blacktriangleleft/\triangleright \Rightarrow \text{ENTER} \Rightarrow \triangle/\nabla/\blacktriangleleft/\triangleright \Rightarrow \text{ENTER}$

- 1. Move to <BACKLIGHT>.
- 2. Select <BLC>.



- 3. Set the BLC < LEVEL>. You can change the level to adjust the brightness of the monitoring area.
- 4. Set the <TOP, BOTTOM, LEFT, RIGHT> levels to specify the target area.
- 5. When completed, select <RETURN> to return to the previous screen.



camera setup

HLC (Highlight Compensation) Setup

When a strong light such as streetlamp or headlight faces forward to the camera, you can mask that exposed area in order to protect it from being saturated.

$\triangle/\nabla \Rightarrow \blacktriangleleft/\triangleright \Rightarrow \text{ENTER} \Rightarrow \triangle/\nabla \Rightarrow \blacktriangleleft/\triangleright \Rightarrow \text{ENTER}$

- 1 Select < BACKLIGHT>
- 2. Select < HLC>.



- Set the <LEVEL> and the <MASK TONE>.
 - · LEVEL: Adjust the brightness level so as to remove the incoming highlight from a specific condition.
 - . MASK TONE: Adjust the mask tone of the highlighted area.
- 4. When completed, select < RETURN > to return to the previous screen.





- This function will only be activated at night.
- At night, HLC will not function if the scene is either too bright or too dark.

Exposure Setup

You can adjust the exposure level of the camera.

$\triangle/\blacktriangledown \Rightarrow \mathsf{ENTER} \Rightarrow \triangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright \Rightarrow \mathsf{ENTER} \Rightarrow \triangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright \Rightarrow \mathsf{ENTER}$

1. Move to <EXPOSURE> and select a setting value.



- 2. Select each item and set it appropriately.
 - BRIGHTNESS: Adjust the screen brightness.
 - IRIS: If set to <MANUAL>, you can adjust the iris of the camera manually.
 - SHUTTER: Adjust the electronic shutter of the camera.
 - MANUAL: Adjust the shutter speed of the camera manually.
 - A.FLK: This will prevent the screen from flickering.
 - AGC: Specify how to adjust the level according to the luminance.
 - MANUAL: Adjust the screen brightness manually.
 - SSNR3 : Adjust the noise reduction level.





camera setup

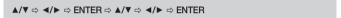
- · SENS-UP: Automatically senses the darkness level at night or in a low contrast scene and extends the accumulation time accordingly for a bright and sharp image.
 - If you set the shutter mode to MANUAL/ FLICKERLESS SENS-LIP mode will be deactivated
 - The greater the video accumulation factor is. the brighter the screen is but the afterimage of a moving object grows accordingly.



- AUTO · Set the work condition to Auto mode in a low contrast scene
- 3. When completed, select < RETURN > to return to the previous screen.

Screen Display Setup

You can specify the camera title and the OSD color that will be displayed on the screen.



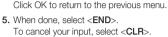
1. Select < SPECIAL >



2. Select < CAM TITLE>



- Use alphanumeric characters in the list and enter a desired title in the bottom input line.
 - You can enter up to 15 characters for the title.
- Select <POS> and specify where to display the camera title.
 When the camera title is displayed, use the direction buttons to specify the position;
- **6.** When completed, select <**RETURN**> to return to the previous screen.



CAMERA TITLE SETUP ABCOEFFCHI J KILM NOPORSTUVWXXZ abcdef jhij kim nopgratuvwxyz —, 0122456739 → CLR POS END

OSD Color

You can set the OSD color on the screen to your preference.

▲/▼ ⇒ ENTER ⇒ **▲/▼** ⇒ **⋖/▶** ⇒ ENTER

1. Select < SPECIAL>.



- 2. Move to <OSD COLOR> and select a desired color.
- 3. When completed, select <RETURN> to return to the previous screen.



camera setup

Day/Night Mode Setup

You can switch the mode to adjust the black and white level as well as the colors.

$$\triangle/\nabla \Rightarrow \blacktriangleleft/\triangleright \Rightarrow \text{ENTER} \Rightarrow \triangle/\nabla \Rightarrow \blacktriangleleft/\triangleright \Rightarrow \text{ENTER}$$

1. Select < SPECIAL>.



SPECIAL SETUP

AUTO 4

OSD GOLOR

IMAGE ADJ

▶ DAY/NIGHT

- 2. Select < DAY/NIGHT>, and specify a desired mode setting value.
 - AUTO: Displays in color mode during normal daytime and switches to black and white mode in a low contrast scene at night.

Press the [Enter ()] button to adjust the switching interval between the two modes

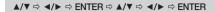


- DWELL TIME: This is the time while each applicable lighting condition is kept in order to enable the switch
- between day and night modes. - DURATION: Adjust the brightness of
- · COLOR: Always displays the video in colors.
- B/W : Always displays the video in black and white.
- ▶ DWELL TIME 5 SEC DURATION SLOW RETURNA the lighting where the mode switch occurs.

3. When completed, select < RETURN > to return to the previous screen.

Image Adjustment

You can configure the sharpness, gamma level, and color settings of an image to your preference.



1. Select < SPECIAL>.



2. Select < IMAGE ADJ>.



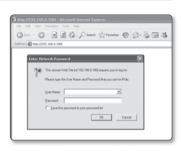
- Select each item and set it appropriately. If selecting <SHARPNESS>, you can adjust the sharpness of the image.
 - SHARPNESS: Adjust the overall sharpness of the image.
 The higher the level is, the sharper and clearer the outline of the image.
 - becomes.GAMMA : Adjust the contrast of the image.
 - COLOR LEVEL: Adjust the color level of the image.
- 4. When completed, select <RETURN> to return to the previous screen.



CONNECTING TO THE CAMERA

Normally, you would

- 1. Launch the Internet browser.
- 2. Type the IP address of the camera in the address bar.
 - ex) IP address (IPv4) : 192.168.1.100
 - → http://192.168.1.100
 - the Login dialog should appear.
 - IP address (IPv6) : 2001:230:abcd: ffff:0000:0000:ffff:1111
 - → http://[2001:230:abcd:ffff:0000 :0000:ffff:11111



If the HTTP port is other than 80

- 1. Launch the Internet browser.
- Type the IP address and HTTP port number of the camera in the address bar.
 IP address: 192.168.1.100:Port number(10000) → http://192.168.1.100:10000
 the Login dialog should appear.

Using URL

- 1. Launch the Internet browser.
- Type the DDNS URL of the camera in the address bar. ex) URL address: http://www.samsungipolis.com/[Product ID]
 - the Login dialog should appear.

To check the DDNS address

If the camera is connected directly to the DHCP cable modem, DSL modem, or PPPoE modem, the IP address of your network will be changed each time you try to connect to the ISP (Internet Service Provider) server.

If this is the case, you will not be informed of the IP address changed by DDNS.

Once you register a dynamic IP-based device with the DDNS server, you can easily check the changed IP when you try to access the device.

To add the IP address to the <**DDNS**> server, visit www.samsungipolis.com and register your device, and set the DDNS option to <**Samsung DDNS**> before providing the user ID and password for the DDNS server.

LOGIN

The default user ID is "admin", and the default password is "4321".

- Enter "admin" in the <<u>U</u>ser Name> input box.
- Enter "4321" in the <<u>Password</u>> input box.
 If the password is changed, enter the changed password instead.
- Click [OK].

 If you have logged in successfully, you will the Live Viewer screen.





- For security purposes, ensure that you change the password in <System> <User>.
 The administrator ID. "admin". is fixed and can not be changed.
- If you check the "Save this password in your password list" option when your input is done, in future you will be logged in automatically without being prompted to enter the login information.
- f you are using Internet Explorer 7.0 or 8.0 as the default web browser, you can view the best quality image with a screen ratio of 100%. Reducing the ratio may cut the image on the borders,

web viewer

This network camera uses Microsoft Silverlight for displaying the video.

INSTALLING SILVERLIGHT RUNTIME

If your PC has not installed Silverlight Runtime or has just installed an old runtime version, you will be redirected to the Silverlight Runtime installation page automatically when accessing the web viewer

1 Click < Click Here>



2. When the file download dialog pops up, click <Run>.



3. When the download is completed, click <Run>.



4. The Silverlight Runtime installation page will be displayed. < Install now> to proceed with the installation.



5. When done, click < Close>.



 Close and restart the web browser, and try to access the Web Viewer.
 When Siverlight Runtime is properly installed, you will see the Live screen.



Popup setting as follows: Internet Explorer — Tools — Block Popup — Always allow popups from the current site(A)



USING THE LIVE SCREEN



Item	Description
1 Monitoring	Move to the monitoring screen.
2 Playback	Switch to the monitoring screen that plays recording data in the SD memory.
3 Setup	Move to the Setup screen.
4 Viewer Screen	Displays the Live video on the screen.
5 Alarm Output	Activate the Alarm Out port.
6 Audio	Display the audio Listen and Talk toggle button on the screen.
7 Reset Alarm	Reset the alarm output settings.
8 Camera Menu	Used to retrieve and customize the Camera Setup menu. For selecting and saving each menu item, refer to "How to use the menu key". (page 53)
9 Digital PTZ	You can use the mouse wheel to activate the digital zooming.
Screen Optimization, Full Screen	Adjust the screen to the optimal size, and display the Full Screen icon on the Live screen.

11 Capture	Saves the snapshot as an image file in the .jpeg or .bmp format.
12 Video Format	You can select a profile type in < Video Profile> under the < Audio & Video> setup menu.

To capture the snapshot

- Click [Save] button.
 The screenshot will be saved in the specified path.



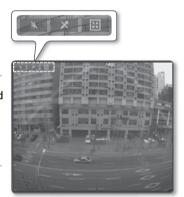
USING OSD SCREEN MENU

To toggle the audio sound

- Click the [Audio ()] button. The corresponding button will be displayed in the Viewer.
- Click the button to listen to / mute the sound as you wish. This button operates as a toggle button.

To toggle the microphone sound

- Click the [Mic ()] button.
 The corresponding button will be displayed in the Viewer.
- Click the button to start / stop talking. This button operates as a toggle button. Click the microphone button that pops up on the screen to display the Silverlight installation screen.



To fit the full screen

- Click the [Full Screen () button.
 The corresponding button will be displayed in the Viewer.
- 2. Click the button.

 This will fit the Viewer to the full screen.
- 3. To exit the full screen mode, press [Esc] on the keyboard.

PI AYBACK

- 1. Click the [Playback ()] button.
- 2. Specify the start time and end time of vour search.
- Select a search type.
- 4. Click the [Search ()] button. The search results will be displayed in the list.



- 5. Select a data item to play in the search list.
- 6. Click the [Play ()] button.
- 7. To stop playing the video, click [Stop

To return to the search screen, click [Exit (🕞)].



To capture the snapshot

- 1. Click [on the scene to capture. The Capture dialog should appear.
- 2. Click [Save]. The screenshot will be saved in the specified path.
- If you are using the Internet Explorer as the default web browser, select "Tools-Internet Options-Security" and uncheck "Use protected mode".



To check the information of the searched video

Click the [About ()] button.

To back up the searched video

- 1. Click [] on the scene to back up. The Capture dialog should appear.
- Click [Save].
 The screenshot will be backed up to the specified path.



To download SlimPlayer

You can download SlimPlayer that is designed to play videos stored in your PC.

- Click [SlimPlayer ()].
 You will see a download dialog where you can specify the download path.
- 2. Specify the path with a proper file name and click [Save].



3. Unzip the downloaded file and run the executable.



setup screen

SFTUP

You can configure the audio & video, network, event and system settings of the camera in the network

- 1. In the Live screen, click < Setup ()>.
- 2. The Setup screen appears.

AUDIO & VIDEO SETUP

You can configure the audio & video, network, event and system settings of the camera in the network.

Video Profile

- From the Setup menu, select the <Audio
 Video ()> tab.
- 2. Click < Video Profile>.
- 3. Select a < Video Profile > number.
- **4.** Click the input box of each item and enter / select a desired value.
 - The context menu may differ depending on the selected codec type.
 - Default Profile: This is the default video profile.
 - Fixed Framerate Profile: Fix the frame rate of the selected profile regardless of the settings of other profiles.
 - E-mail/FTP Profile : Video profile to be transferred to the specified email or FTP site.
 - Only the MJPEG codec can be set as the E-mail/FTP Profile.
 - Record Profile: This is the profile that is applied to video recording.
- 5. When done, click [Apply].



To add a video profile

You can add as many codecs as necessary so that a variety of profiles can be applied according to the recording condition.

- 1. Select a profile number.
- 2. Provide the name and select a codec.
- 3. Specify the conditions under which the codec will be applied.
- 4. Specify the details of the selected codec including resolution and frame rate.
 - Resolution: Set the video size of the MPEG4, H.264, and MJPEG files.
 - Framerate : Specify the frame rate.
 - Compression: Specify the compression rate of the video.
 - Bitrate control: You can select either the fixed bit rate or the variable one for the compression type.
 - If you set the resolution to 1280X1024, the maximum frame rate is 22 fps.
 - Target bitrate: Specify the bit rate at which you will transfer the video.
 - Encoding priority: You can set the video transfer method to Framerate or Compression.
 - GOP size: Select a GOP size between 1 and 15.
 - Profile: The H.264 profiling method is fixed to < High>.
 - Entropy coding: Reduce the possible compression loss due to encoding.
 - Multicast (VNP): Specify the use of the VNP protocol.
 - IPv4 : Enter an IPv4 address with which you can connect to the IPv4 network.
 - Port : Specify the video communication port.
 - TTL: Set the TTL for the VNP packet.
 - Multicast (RTP): Specify the use of the RTP protocol.
 - IPv4: Enter an IPv4 address with which you can connect to the IPv4 network.
 - Port: Specify the video communication port.
 - TTL: You can set the TTL for the RTP packet.

What is GOP size?

GOP (Group of Pictures) is a set of video frames for MPEG4 and H.264 format compression, indicating a collection of frames from the initial I-Frame (key frame) to the next I-Frame. GOP consists of 2 kinds of frames: I-Frame and P-Frame.

I-Frame is the basic frame for the compression, also known as Key Frame, which contains one complete image data. P-Frame contains only the data that has changed from the preceding I-Frame.

You can set between 1 and 15 for the MPEG4 and H.264 CODEC.

setup screen

Video Setup

- 1. From the Setup menu, select the <Audio & Video ()> tab.
- 2. Click < Video Setup>.
- 3. Select a < Video Source > mode.
 - Flip Mode: Turn upside down the image that is captured by the camera.
 - Mirror Mode: Flip horizontal the image that is captured by the camera.
- 4. Click the input box of each item in
 - <Privacy Area Configuration> and enter / select a desired value.
 - You can set up to 12 privacy zones.
- 5. Set the <Video Output>.
 - If you select <OFF>, the video signal will not be output via the VIDEO OUT port.
- 6. When done, click [Apply].

To set the privacy zone

You can specify a certain area of the camera video to be protected for your privacy.

- 1. Set it to < Enable >.
- 2. Place the cursor at a point in the video and drag it to whatever you need.
- Specify the <Color> that will fill the privacy area.
- To cancel your selection, simply click [Clear].
- 5. When done, click [Apply].



Audio Setup

You can configure the I/O settings of the audio source from the camera.

- 1. From the Setup menu, select the <Audio & Video ()> tab.
- 2. Click < Audio Setup>.
- Adjust the audio I/O levels to your preference.
 - Audio-In: Set the audio input value.
 - Audio-Out : Set the audio output value.
- 4. When done, click [Apply].



NETWORK SETUP

Interface

- 1. From the Setup menu, select the <Network () > tab.
- 2. Click < Interface>
- Set the <Interface> and <IPv6 Setup> as necessary.
 - IP Type : Select an IP connection type.
 Manual : Specify the IP address.
 - Manual: Specify the IP address, Subnet Mask, Gateway, DNS1, and DNS2.
 - PPPoE: Specify the DNS1, DNS2, ID and password.
 - DHCP: Specify the DNS1 and DNS2.
 - If you set it to < Manual>, you should specify the IP, Subnet Mask, Gateway, DNS 1 & 2 manually.
 - MAC Address: Shows the MAC address.
 - IP Address: Displays the current IP address.
 - Subnet Mask: Displays the <Subnet Mask> for the set IP.
 - Gateway : Displays the < Gateway > for the set IP.
 - DNS1/DNS2 : Displays the DNS(Domain Name Service) server address.
 - IPv6 Use: Specify the use of IPv6.
 - IPv6 Address: Obtains the IPv6 address to access the IPv6 network.
- 4. When done, click [Apply].



setup screen

Port

- 1. From the Setup menu, select the <Network ()> tab.
- Select < Port>.
- Type in each item in the Port menu as necessary.
 - Neither the port range between 0 and 1023 nor port 3702 is available.
 - HTTP port : HTTP port used to access the camera via the web browser.

The default is 80(TCP).

- VNP Port : Set a port used to transfer video signals with the Samsung protocols.
- RTSP Port: Used to transfer videos in the RTSP mode: the default is 554.
- VIEWER Port: Used to transfer videos to the Web Viewer; the default is 4520.
 - The port range of the Web Viewer is between 4502 and 4532. If the VNP port is with this effective range, the Web Viewer port should be specified the same as the VNP port.
- 4. When done, click [Apply].

DDNS

DDNS is an abbreviation of Dynamic Domain Name Service that converts the IP address of a camera into a general Host Name so that the user can easily remember it.

- 1. From the Setup menu, select the <Network ()> tab.
- 2. Click < DDNS>.
- 3. Select < DDNS>.
- **4.** Type in the DDNS items according to the selected type.
 - Samsung DDNS: Select this if you use the DDNS server provided by Samsung Techwin.
- Total Control Control
- Public DDNS: Select this if you use a public DDNS server.
 - Host name: Enter the name of the host (i.e., host name of Dyndns) that is registered with the DDNS server.



- User Name : Enter the user name for the DDNS service. (i.e., user ID that is registered with Dyndns)
- Password : Enter the password for the DDNS service. (i.e., password that is registered with Dyndns)
- 5. When done, click [Apply].

IP Filtering

You can create a list of IPs that you want to grant or deny access to them.

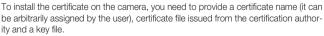
- 1. From the Setup menu, select the <Network ()> tab.
- 2. Click <IP filtering>.
- **3.** Select a < Filtering Type>.
 - Deny: If selecting this, access from those IPs that are added to the filtering will be restricted.
 - Allow: If selecting this, access from only those IPs that are added to the filtering will be accepted.
- **4.** Provide the IP that you want to grant or deny access from.
- 5. When done, click [Apply].



SSL

You can select a secure connection system or install the public certificate for this purpose.

- 1. From the Setup menu, select the <Network ()> tab.
- 2. Click <SSL>.
- 3. Select a secure connection system.
 - To access the camera using HTTPS mode, you have to type the IP address for the camera in the form of "https://<Camera IP>".
- **4.** Search for the public certificate that you want to install on the camera.



- The <HTTPS(Secure connection mode using the public certificate)> item will be active only if there exists a public certificate installed.
- 5. When done, click [Apply].



Registering with DDNS

To register your product with the Samsung DDNS

 Visit the iPOLiS web site(www. samsungipolis.com) and sign in with a registered account.



From the top menu bar, select <DDNS SERVICE>-<MY DDNS>.



- 3. Click [PRODUCT REGISTRATION].
- 4. Enter the product domain.
 - You must perform the duplicate check for the domain that you entered.
- Select a <CLASSIFICATION> and specify the <MODEL NUMBER>.
- Specify the product location with a description if necessary.
- Click [REGISTRATION].
 The product will be added to the product list that you can check.





To connect to the Samsung DDNS in camera setup

- 1. From the DDNS setup page, set <DDNS> to <Samsung DDNS>.
- Provide the <User Name> and <Password> that you registered with the DDNS site.
- Click [Apply].
 When the connection is successfully made, you will see the message of <Success> on the screen.



EVENT SETUP

FTP/E-mail

You can configure the FTP/E-mail server settings so that you can transfer the images stored in the camera to your PC if an event occurs.

- 1. From the Setup menu, select the < Event () > tab.
- 2. Click <FTP / E-mail>.
- Select <FTP Configuration> or <E-mail Configuration> and enter / select a desired value.
 - FTP Configuration
 - Server Address: Enter the IP address of the FTP server that you transfer the alarm images to.
 - User ID: Enter the user ID with which you will log in to the FTP server.



- Password : Enter the user account password for logging into the FTP server.
- Upload Directory : Specify the FTP path where you will transfer the alarm images.
- Port: The default port of the FTP server is 21; however, you can use a different port number according to the FTP server settings.
- Passive Mode: Select <On> if you need to connect in passive mode due to the firewall or the FTP server settings.

setup screen

- · E-mail Configuration
 - Server Address: Enter the IP address of the email server that you use for the email transfer.
 - ex) SMTP. hotmail. com
 - User ID: Enter the user ID for logging into the email server.
 - Password: Enter the user account password for logging into the email server.
 - Port: The default port of the email server is 25; however, you can use a different port number according to the email server settings.
 - Recipient: Enter the address of the email recipient.
 - Sender: Enter the address of the email sender. If the sender address is incorrect, the email from the sender may be classified as SPAM by the email server and thus may not be sent.
 - Subject : Enter a subject for your email.
 - Body: Provide the text for the massage. Attach the alarm images to the email that you are preparing.
- 4. When done, click [Apply].

SD Record

You can set the record conditions or the use of recording for the SD memory, check the size of stored data, or format the SD memory itself.

- 1. From the Setup menu, select the < Event ()> tab.
- 2. Click <SD Record>.



To make recording on the SD memory

- 1. Check the <Total Size> and the <Free Size>.
- If the SD memory has a sufficient free space, set <Record> to On.
 Otherwise, check the stored data and if you find them not important, then click <Format> to format the SD memory.
 - If your SD memory card writes slowly, only one frame per second will be stored.
 - For a SD memory card with a large capacity, the formatting will be slowed down accordingly.
 - Note that only one frame per second (1 fps) will be stored for the following resolutions: 1280x1024, 1280x720, 800x600.
 - If the size of data grows with time, only 1 fps can be stored even if you set the record quality to Full Frame
- 3. Specify the record conditions.
 - Record 1 fps forcibly: Only one frame per second will be recorded regardless of the existing record profile.
 - Overwrite: If the SD memory is full, this will delete old data and store new data in replacement.
 - Pre-alarm duration: Specify the time point before the occurrence of the alarm; starting from the time point, the images will be transferred. You can specify up to 5 seconds before the occurrence of the alarm.
 - Post-alarm duration: Specify the time point after the occurrence of the alarm; to the specified time point, the images will be transferred. You can specify up to 120 seconds after the occurrence of the alarm.
- 4. When done, click [Apply].

Alarm Input

You can set the alarm input type, activation time, and operation mode.

- 1. From the Setup menu, select the < Event ()> tab.
- 2. Click < Alarm input>.
- 3. Specify an input device.
 - Normal Open: It is normally open, but if it is closed, an alarm will be triggered.
 - Normal Close: It is normally closed, but if it is open, an alarm will be triggered.
- 4. Specify the <Activation time>.
 - Always: Always activates when an alarm occurs.
 - Only scheduled time: Activates at a specified day of the week for a specified time period. The start time should be earlier than the end time, both of which are different with each other



setup screen

- 5. Specify an operation that will perform if an alarm occurs.
 - Output duration : Specify the alarm output time in the alarm input setup.
 - E-mail Sending: Specify the use of email transfer in the alarm input setup.
 - · Record: Specify the use of recording in the alarm input setup.
- 6. When done, click [Apply].

Video analysis

- 1. From the Setup menu, select the <Event () > tab.
- 2. Click < Video analysis>.
- Specify the use of Intelligent Video Analysis.
- Specify the use of overlay.
 If you set it to Enable, the event rules will be shown on the screen.
- 5. Specify the object size.
- **6.** Select a sensitivity level at which the camera detects the object.
- 7. Select an event rule.
 - You can select a total of 3 rules including the virtual line and the specified area.
- **8.** Specify the activation time and activation condition.
 - For more information about <activation time> and <action>, refer to "Alarm Input". (page 79)
- 9. Specify whether or not the alarm area is displayed.
 - If you set it to <On>, the suspect area where the alarm occurs will be marked in a red box.



To use the IV analysis function according to the virtual line based rule

- 1. Set <IV analysis function> to <Enable>.
- 2. Set the event rule to <Virtual line based rules>
- 3. Click a desired area in the video and drag it to the end point, and right-click it
- 4. Select a desired < Virtual Line Rules >
 - You can specify up to 3 event rules for the virtual line.
 - Right: A movement from left to right in the virtual line will be detected.
 - Left: A movement from right to left in the virtual line will be detected.
 - Both: A movement in any direction in the virtual line will be detected.
- 5. Click [OK].

To cancel the existing line, right-click on the line and select [Delete] in the context menu.

6. When done, click [Apply].

To use the IV analysis function according to the defined area based rule

- 1. Set <IV analysis function> to <Enable>.
- 2. Set the event rule to < Defined area based rules>.
- Select the vertex of a desired area, and right-click it to display the context menu.
- Select a desired < Defined Area Rules >.
 - You can specify up to 3 defined area event rules.
 - Entering: An event where a moving object passes through the defined area and enters inside will be detected.
 - Exiting: An event where a moving object passes through the defined area and exits outside will be detected.
 - Appearing/Disappearing: An event will be detected where an object that has not
 existed in the area until the previous frame, suddenly appears or disappears in the
 area without passing through the defined area.
- Click [OK].

To cancel the specified area, right-click on the area and select [Delete] in the context menu.

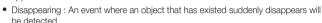
6. When done, click [Apply].



setup screen

To use the IV analysis function according to the whole area based rule

- Set <IV analysis function> to <Enable>.
- 2. Set the event rule to < Entire area based rules>
- Select a desired < Entire Area Rules>.
 - Appearing: An event where an object that has not existed suddenly appears will be detected.



- Scene Change: An event where the screen is changed at more than a certain time interval will be detected.
 - You can set the **<Scene Change>** rule along with rules : **<Appearing>** and **<Disappearing>**.
- 4. Click [OK].
- 5. When done, click [Apply].

Time Schedule

You can configure so that an event will occur at a scheduled time regardless of the actual occurrence of the event.

- 1. From the Setup menu, select the < Event () > tab.
- 2. Click <Time Schedule>.

To set the timer event

- 1. Set < Timer Event Setup> to Enable.
- Specify the <Activation time>.
 - Always: Always sends an image at the set interval.
 - Only scheduled time: Periodically transfers image only at a specified time and date.
- 3. Specify the <Transfer interval>.





- 4. Specify the activation conditions.
 - FTP Sending: Specify the use of the FTP transfer if an event occurs.
 - Record : Specify the use of recording if an event occurs.
- 5. When done, click [Apply].

SYSTEM SETUP

Product Information

- 1. From the Setup menu, select the <System ()> tab.
- 2. Click < Product information>.
- Check the camera information, or provide details according to your network environment.
 - Location: Specify the location where the camera is installed.
 - Description: Provide detailed information about the camera location.
 - Memo: Provide an explanation about the camera for better understanding.
 - Language: Select a preferred language for the camera menus and the Web Viewer OSD.
- 4. When done, click [Apply].

Date & Time

- 1. From the Setup menu, select the <System ()> tab.
- 2. Click < Date & Time>.
- Specify the time and date that will be applied to the camera.
 - Current system time: Displays the current time settings of your system.
 - Timezone : Specify the local time zone based on the GMT.
 - Use Daylight Saving Time:
 If checked, the time will be set one hour before the local time zone for the specified time period.

This option will be displayed only in areas where DST is applied.





setup screen

- System time setup : Specify the time and date that will be applied to your system.
 - Manual: Specify the time manually.
 - Synchronize with NTP server : Sync with the time of the specified server address.
 - Synchronize with PC viewer: Synchronize the time with the connected PC.
- 4. When done, click [Apply].

User

- 1. From the Setup menu, select the <System ()> tab.
- 2. Click <User>
- 3. Provide the necessary user information.
 - Administrator Password Change: Change the current password for the administrator.
 - Guest setup: If <Guest access> is permitted, any guest can access the Web Viewer screen but can view only the Live viewer screen.



- Current Users: You can change the user information and adjust the permission level for a user who is set to < Fnable>
 - Video: You can select a video profile in the Liver viewer screen.
 - Audio-In: The audio input option will be activated in the Live Viewer screen.
 - Controls: You can configure the camera menus and control the use of the alarm button
- 4. When done, click [Apply].

Upgrade/Reboot

- 1. From the Setup menu, select the <System () > tab.
- 2. Click [Upgrade/Reboot].
- Select a desired item and set it appropriately.
 - Upgrade : Performs upgrading the system.



- Factory default : Resets the system to the factory default.
 - Except network parameter: Reset the other settings except for the interface/ port/DDNS/IP filtering settings.
 - All: Resets all settings including the camera settings. (however, the log information will not be reset)
 - If you reset all settings, the IP address will be defaulted to 192.168.1.100.
- Configuration backup & Restore: Backs up the current system settings before performing the restoration process.
- Restart : Restarts the system.
- 4. When done, click [Apply].

To perform the upgrade

- 1. Click [Upgrade].
- Click [Browse] and specify a file to upgrade.
- 3. Click [Send].
- The "Upgrade" dialog appears where the progression will be shown in the bottom.



If you forcibly terminate the upgrade process, upgrade will not be completed properly.



To save the current settings and restore the backup settings

- 1. Click [Backup].
 The Save As dialog should appear.
- Specify the backup path with a proper file name, and click [Save].
 The backup file will be saved to the specified path in the format of ".bin".
- To restore the backup settings, click [Restore].



setup screen

Select a backup file and click [Open].



Log

You can check the system log or event log.

- 1. From the Setup menu, select the <System ()> tab.
- 2. Click <Loa>.
- Select a log type.
 - . Syslog: You can check the system logs where any system changes are recorded including the time information.
 - Evtlog: You can check the event logs including the time information.
- 4. From the right log list, select an item to search for.
 - If you select <All> in the top left dropdown list, all logs for the applicable log type will be displayed.
- 5. If one page can not display all the logs available, use the bottom buttons to move to the previous, next, or the last item.



- If you want to view the details of a log, click < Info> in the right column of the log; the log information will be shown in the bottom pane.
- Each page displays 15 logs with the latest one displayed at the top.
- The event/system log list can contain up to 1000 logs; after that, the existing logs will be deleted from the oldest one each time a new log is created.





CAMERA SPECIFICATION

Items			Description	
Camera Type	Color/BW		Color	
Image	Device		1.3Mega Pixel Progressive Scan CMOS	
	Size		1/3 inch	
	Scan		Progressive Scan	
	Pixels	Total	1,384(H) x 1,076(V), 1.49M pixels	
		Effective	1,329(H) x 1,049(V), 1.39M pixels	
Min. Scene	Color	Sens Up Off	0.3Lux (F1.2, 50 IRE)	
Illumination	B/W	Sens Up Off	0.01Lux (F1.2, 50 IRE)	
	Privacy Mask		Off / On (12 Programmble Zones)	
	Day/Night		Color / BW / AUTO(IR Cut Filter)	
	Backlight Compensation		BLC / HLC / SSDR / Off	
	Electronic Shutter Speed		Auto (1/30 ~ 30,000sec) / A.FLK / Manual	
	Gain Control		Off / Low / Medium / High / Manual	
	Sens Up		Off / Auto (Seletable up to 60X)	
Functions	2D+3D Digital Noise Reduction (SSNRIII)		Off / On (Level Adjusment)	
	White Balance		ATW / AWC / Manual / Indoor / Outdoor	
	On Screen Display		Yes (Camera Title Support)	
	OSD Language		English, French, Germany, Spanish, Italian Chinese, Korean, Russian, Japanese Swedish, Denish, Portuguese	
Video Output	VBS 1.0Vp-p		VBS 1.0Vp-p	
S/N Ratio	S/N Ratio		About 50 dB	



	Items		SNB-5000	SND-5080/F	SNV-5080	
	Focal Length		-	2.8~10mm		
	Zoom ratio		-	x3.6		
	Aperature Ratio		-	F1.2		
Lens	Viewing Angle	Tele	- 28.8°(H) x 21.6°(V)		l) x 21.6°(V)	
		Wide	-	94.6°(H) x 68.4°(V)		
	Lens Drive Type		Manual / DC	Al(DC)		
	Mount Type		CS/C	Board Type		
Environmental	Operating Temperature		-10°C ~ +50°C		-40°C ~ +50°C (Fan/Heater Built-in)	
Conditions	Humidity		0% ~ 90%		0% ~ 90% (Waterproof)	
	Power Requirement		AC24V, DC12V, PoE			
Power	Power Consumption		6 W	7 W	7 W (Heater Off) 11 W (Heater On)	
	LED Indicator		Yes			
Physical Specification	Dimensions (WxHxD)	Net	72x 60x138.6mm	129.5(H)x133(Ø)/ 125(H)x160(Ø)mm	134.5(H)x160(Ø)mm	
	Weight	Net	438g	525g / 765g	1,340g	
	Color	Body	Dark Grey	White		
	Case		Metal	Plastic	Aluminum (IP66)	

NETWORK SPECIFICATION

	Items		Description	
Network Board	0S		Embedded Linux	
		Flash memory	128M byte	
		RAM	256M byte	
		Ethernet	RJ-45 (10/100BASE-T)	
	Hardware	Video Out	VBS 1.0Vp-p	
		Audio	Line In / Line Out	
		SD Memory Slot	Yes (SD/SDHC)	
		PoE	Yes (IEEE802.3af Class 2)	
Alarm Input Output			1 ea	
			1 ea (Relay)	
	Compression		H.264 / MPEG4 / MJPEG Multiple Codec	
		SXGA	1280x1024	
		HD (16:9)	1280x720P	
	Resolution	SVGA	800x600	
		VGA	640x480	
		QVGA	320x240	
	Max Frame Rate		SXGA: 22ips HD/SVGA/VGA/QVGA: 30ips	
Video	H.264 / MPEG4 Quality MJPEG Quality		Compression : 1 ~ 20 (20 steps) Target Bitrate (CBR mode only)	
			- 1280x1024 : 1024 ~ 10240 kbps - 1280x720 : 1024 ~ 10240 kbps - 800x600 : 512 ~ 5120 kbps - 640x480 : 512 ~ 5120 kbps - 320x240 : 64 ~ 2048 kbps	
			1 ~ 20 level	
	Bitrate Control		H.264 / MPEG4 : VBR / CBR MJPEG : VBR	
	Streaming		H.264 / MPEG4 / MJPEG multiple streaming (Individual streaming simultaneously)	
Audio	Compression		G.711 µ-law	
Audio	Audio Bi-Directional Communication		Yes	
Motion Detection	n Intelligent Motion Detection		Scene Change, Virtual Line Enter / Exit, Appear / Disappear	



	Items		Description
	IP		IPv4 / IPv6
Protocol	Network Protocol	IPv4	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP HTTP, HTTPS, SSL, DHCP, FTP, SMTP, ICMP, IGMP SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS
		IPv6	TCP/IP, HTTP, HTTPS, SSL, DHCP
	Streaming		Unicast, Multicast
	Security		HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering, User access Log
	DDNS		Supporting Samsung DDNS and Public DDNS services
	Maximum User Access		Max 10 Users at Unicast Mode Max 20 Users at Multicast Mode
Connection	User Access	Administrator	Full Control Privilege
	Level	Guest	Live Monitoring only
	20101	Additional User	Configurable privilege individually
Event Management	Alarm Input		Pre/Post Alarm Image Buffering Image Recording : SD memory Event Notification
	Intelligent Motion Detection		E-mail Notification Alarm Out Activation
	Schedule		JPEG Image transfer : FTP Image Recording : SD memory Alarm Out Activation
	Supported OS		Windows XP, VISTA, 7 Mac OS
	Supported Browser		Internet Explorer 7.0 or Higher Firefox, Google Chrome, Safari
Web Browser Viewer	PTZ Control		Digital PTZ based on Mega Pixel Resolution
(Default)	Plug-in		MS SilverLight 4.0
(Delault)	UI Language		English, French, Germany, Spanish, Italian Chinese, Korean, Russian, Japanese Swedish, Denish, Portuguese
	S/W upgrade		Using Web viewer UI
Video Player	RTP/RTSP streaming		Quicktime, VLC player
Video Management Software			Samsung CMS S/W, 3rd Party S/W appliction
Application	IP Installation		IP Installer Application for All Samsung IP Devices

TROUBLESHOOTING

PROBLEM	SOLUTION		
	Check to make sure that the camera's Network settings are appropriate. Check to make sure that all network cables have been connected properly.		
I can't access the camera from a web browser.	If connected using DHCP, verify that the camera is able to acquire dynamic IP addresses without any problem.		
nos sionos.	If connected using a DDNS URL, verify that the MAC address has been properly entered.		
	If the camera is connected to a router, verify that port forwarding is properly configured.		
	Connected Viewers become disconnected upon any change to camera or network configurations.		
Viewer got disconnected during monitoring.	Check all network connections.		
montoring.	If the camera is connected over an PPPoE network, it's possible for Viewer to disconnect under poor network conditions.		
I cannot connect to the system using a tab browser of Internet Explorer 7.0.	When you try to connect to the system using a tab browser, the same cookie information is shared, resulting in errors when connected. Therefore, instead of using a tab browser, open a new browser window to connect to the system.		
The camera connected to the network is not detected in the IP installer program.	Turn off the firewall settings on your PC and then search the camera again.		
Images overlap.	Check whether two or more cameras are set to a single multicast address instead of different addresses. If a single address is used for multiple cameras, the images may overlap.		
No image appears.	If the transmission method is set to multicast, check whether there is a router that supports multicast in the LAN the camera is connected to.		

<u>appendix</u>

PROBLEM	SOLUTION
No JPEG file is transferred via e-mail on occurrence of intelligent video analysis event of camera even when the <iv analysis<br="">function> is set to <enable>.</enable></iv>	Verify the settings in the following sequence: A. Check < Data & Time > settings. B. The < IV analysis function > should be set to < Enable > . C. Alarm Video Transmission must be enabled.
Can <set rules=""> be configured even when the <iv analysis<br="">function> is set to <disable>?</disable></iv></set>	Yes, it can be. You can set rules for events despite of the intelligent video analysis setting.
No signal is found at the Alarm Output port even when an intelligent video analysis event is generated.	Check alarm output port settings.
Cannot record into the SD memory card.	Check if the memory card is defective. Check if the write protection tab of the memory card is set to "Lock".
SD memory indicator does not turn on even when the SD memory card is inserted.	Check if the memory card is defective. Check if the <record> is checked in <setup> → <event> → <sd record=""> menu.</sd></event></setup></record>
SD memory card is inserted but the camera does not operate properly.	Check if the memory card is inserted in the proper direction. Operation of memory card that is formatted by other devices is not guaranteed with this camera unit Format the memory card again in <setup> → <event> → <sd record=""> menu.</sd></event></setup>
Cannot format the SD memory card.	Check if the write protection tab of the memory card is set to "Lock".

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Version 2.1, February 1999

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